Bernard L. Stewart

Home Land Security

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Homeland Defense Priorities

Do we need to reevaluate ?

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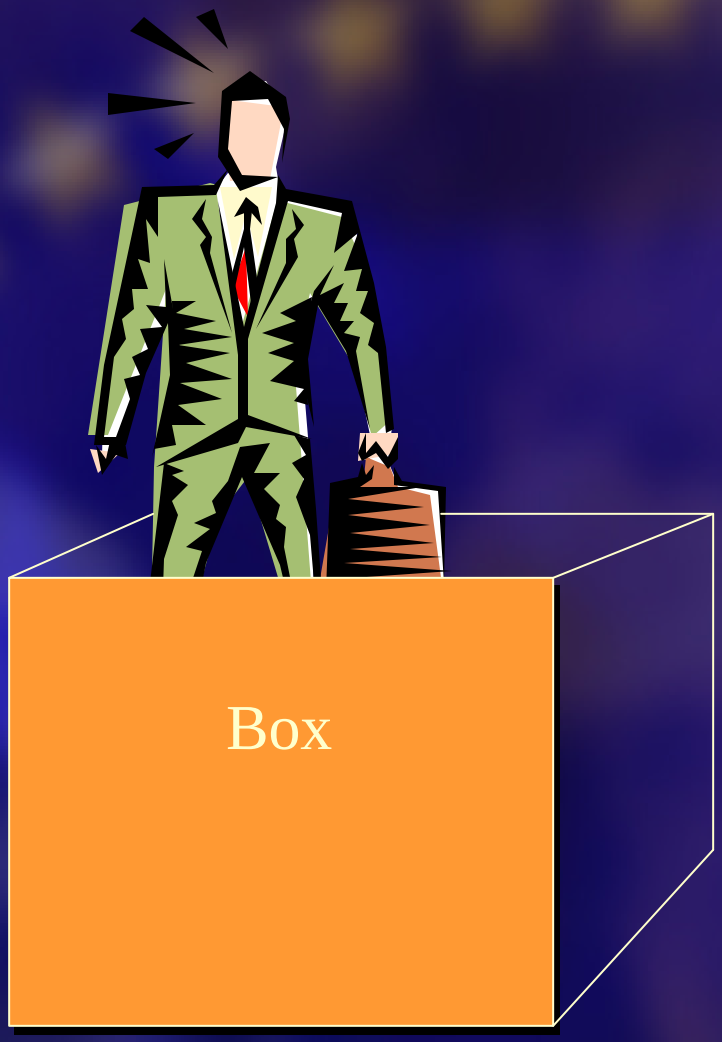
Airport Security

- **Billions being allocated to inspect baggage, screen passengers and improve airport security. But…..Are we more secure?**

R F I D

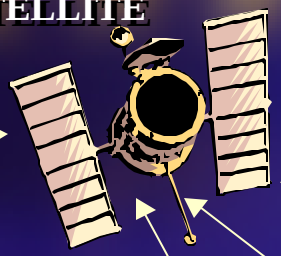


WE NEED SOME ‘OUT OF THE BOX’ THINKING

START TERMINAL
READ / WRITE

DATABASE "db"

SATELLITE



INTERNATIONAL
db

NATIONAL
db

AC db

WAITING
AREA

BOARDING
AIRCRAFT

SECURE AREA
ENTRANCE

CHECK IN
COUNTER

LUGGAGE
SCREENING
HANDLING
LOADING

ENTRANCE

EXIT TERMINAL
db

ARRIVE WITH TICKET OR GET AT COUNTER

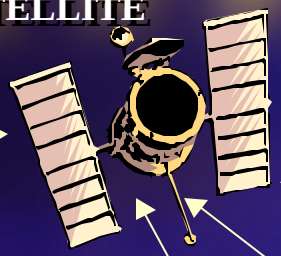
THE db IS NOTIFIED OF TICKETS ARRIVAL, TIME, DATE & DOOR. THIS DATA IS ALSO WRITTEN TO THE TICKET AND MOVEMENT IN THE TERMINAL IS THEN MONITORED. IF ACTIVITY IS UNUSUAL, THE SECURITY ALERT BEGINS TO RISE.

CARRY ON AND CHECK LUGGAGE NOT YET IDENTIFIED.

START TERMINAL
READ / WRITE

DATABASE "db"

SATELLITE



INTERNATIONAL db

WAITING AREA

BOARDING AIRCRAFT

AC db

NATIONAL db

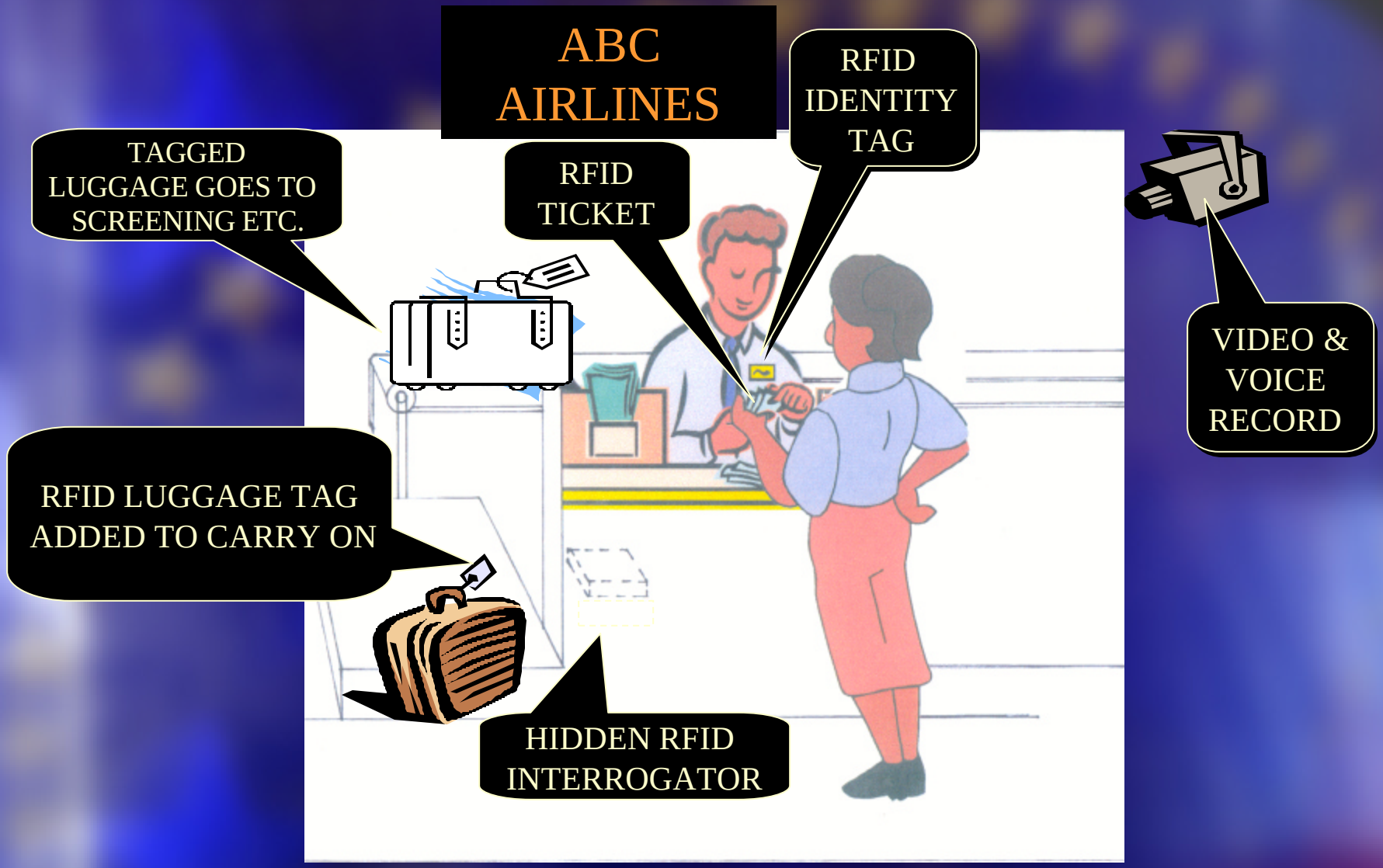
SECURE AREA ENTRANCE

CHECK IN COUNTER

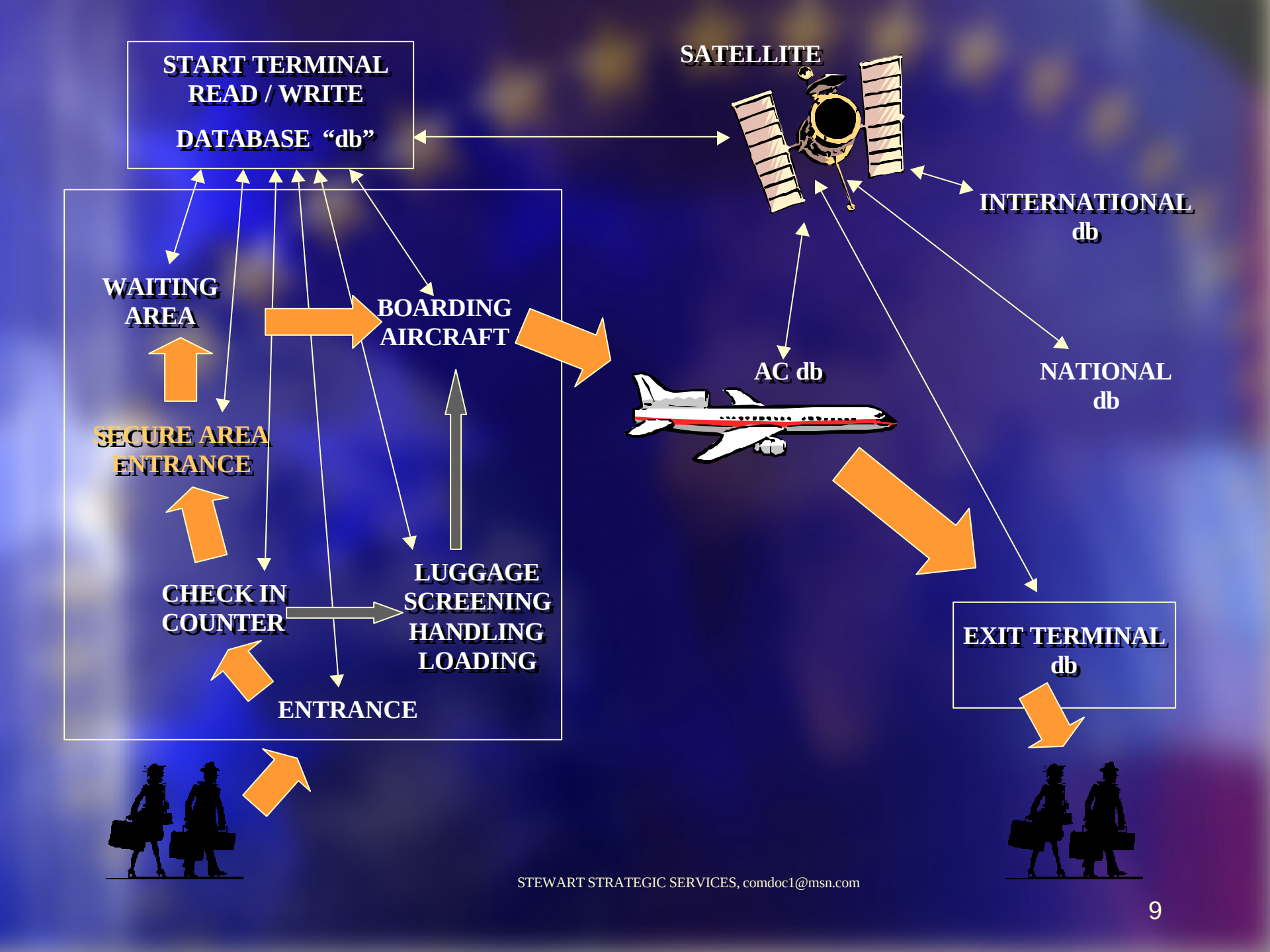
LUGGAGE SCREENING HANDLING LOADING

ENTRANCE

EXIT TERMINAL db



TICKET AGENT QUESTIONS TRAVELER, ENTERS RFID ALERT INFORMATION. VIDEO/VOICE IMAGE IS MARKED. COMPUTER STARTS DATA ANALYSIS USING BIOMETRICS AND OTHER db'S AS NEEDED. SECURITY LEVEL IS ADJUSTED AND db ANALYSIS CONTINUES.


START TERMINAL
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EXIT TERMINAL
db

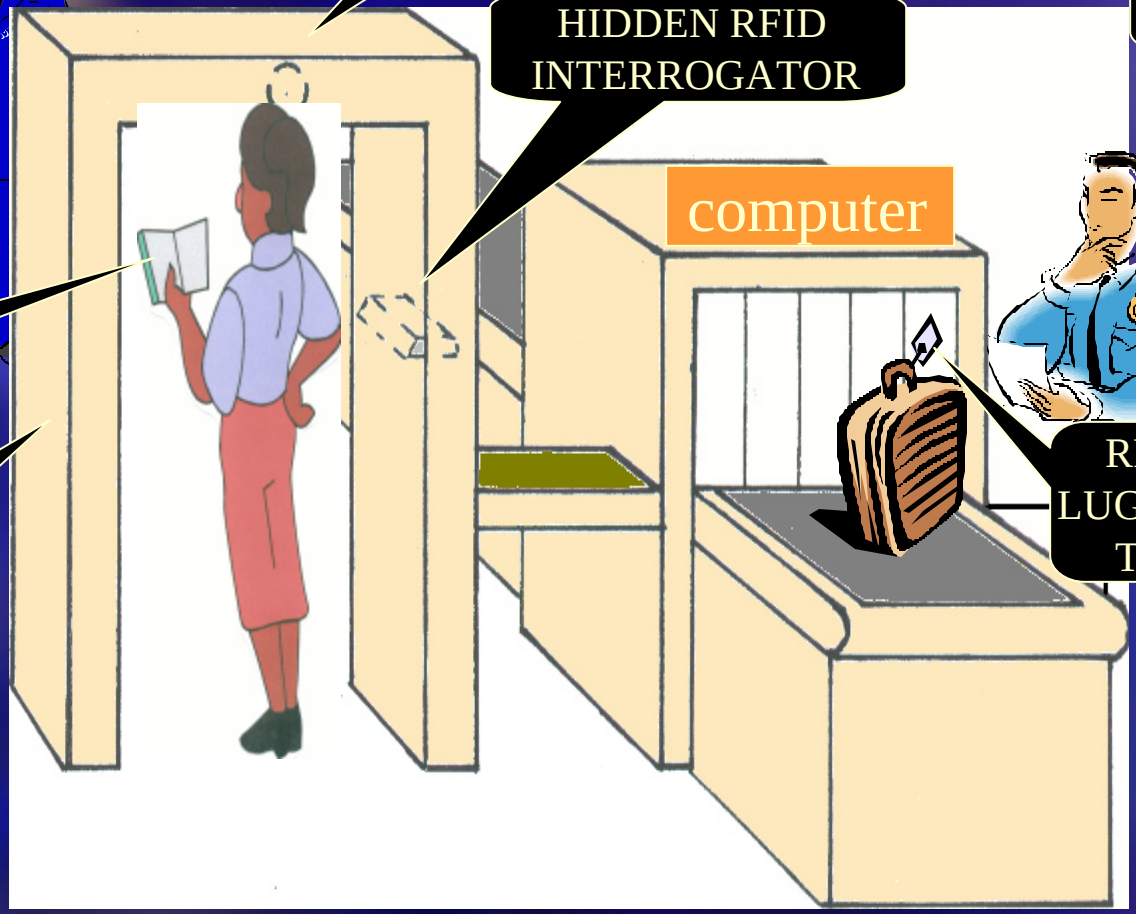
HIDDEN VIDEO & VOICE RECORDER

EITHER OFFICER CAN CHANGE PASSENGER ALERT LEVEL

OFFICER QUESTIONS TRAVELER

LUGGAGE EXAMINER

HIDDEN RFID INTERROGATOR

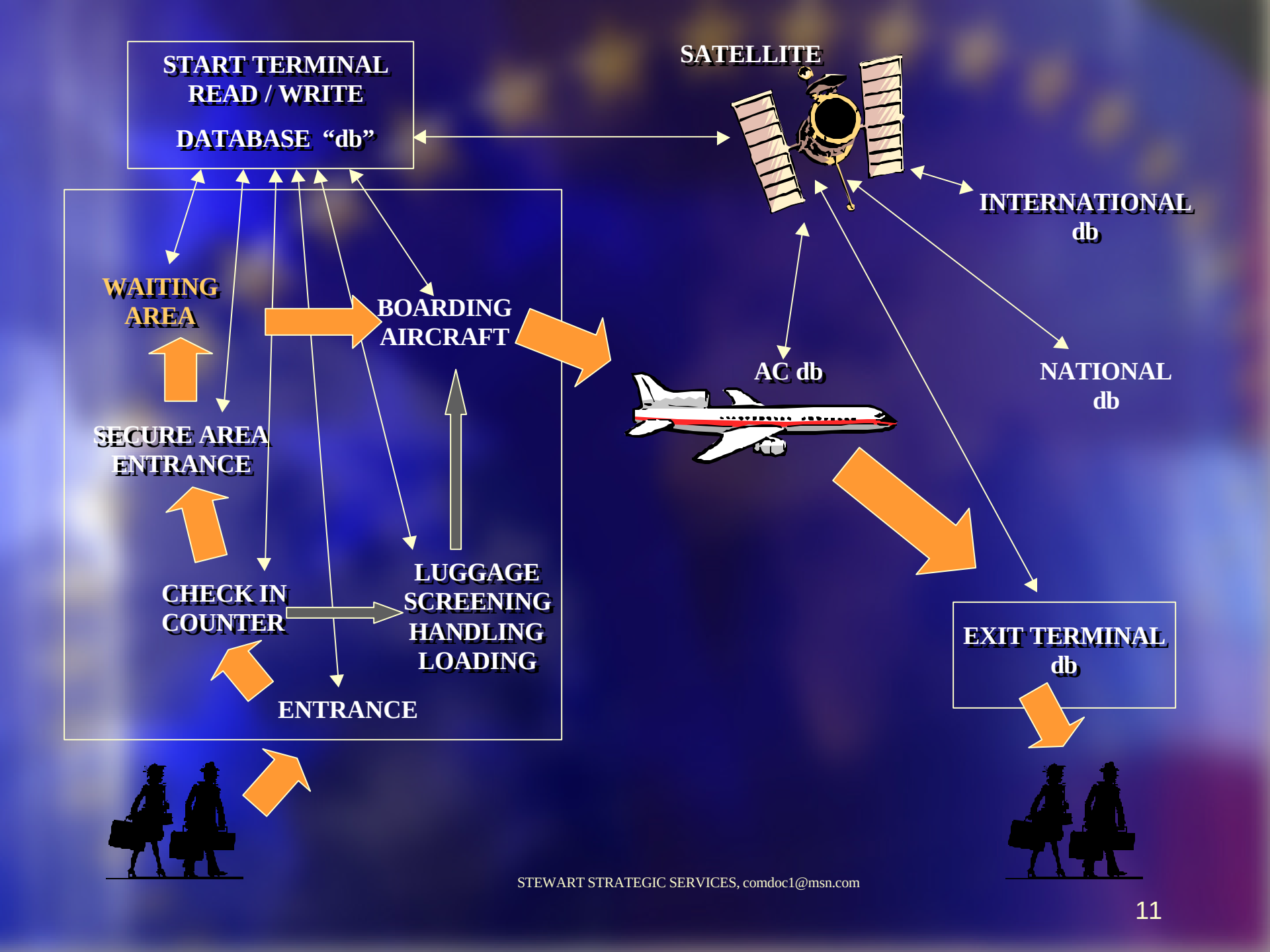


RFID TICKET

METAL DETECTOR& BODY SCAN

RFID LUGGAGE TAG

RFID INTERROGATOR UPDATES TICKET & LUGGAGE TAG PLUS SENDS TRAVELERS LOCATION, VIDIO & VOICE IMAGE TO COMPUTER FOR BIOMETRIC ANALYSIS. EXAMPLE: HAS LUGGAGE & TICKET REMAINED TOGETHER?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EXIT TERMINAL
db

MAKE PASSENGERS FEEL AT HOME -- BUT AIRLINE KNOWS WHERE THEY ARE

RFID INTERROGATOR

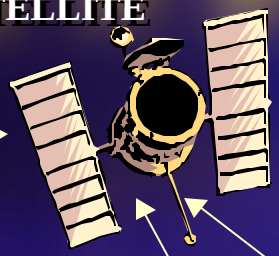
RFID TICKET

Secure Pre-Boarding Area

START TERMINAL
READ / WRITE

DATABASE "db"

SATELLITE



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AREA

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AIRCRAFT

AC db

NATIONAL
db

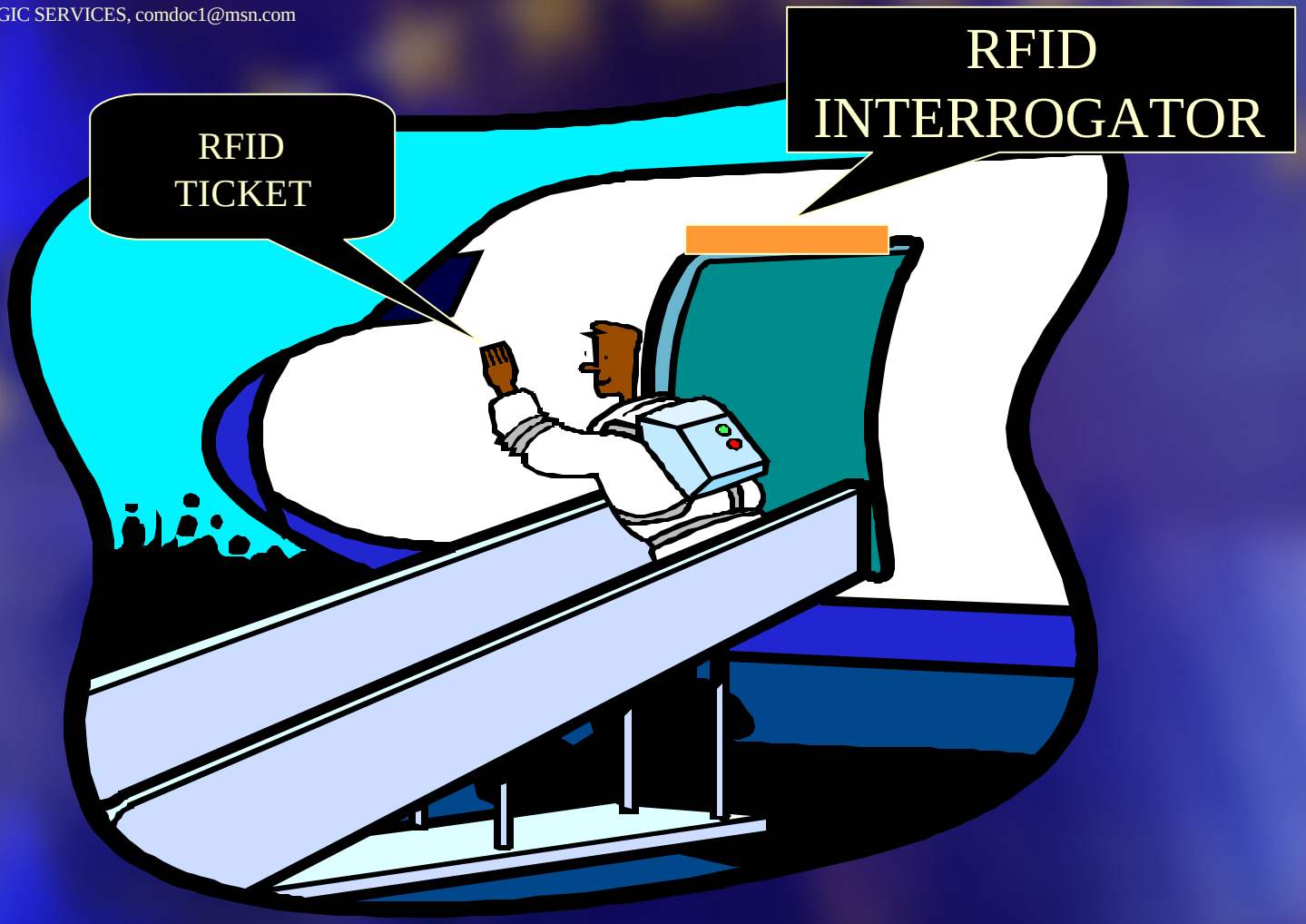
SECURE AREA
ENTRANCE

LUGGAGE
SCREENING
HANDLING
LOADING

CHECK IN
COUNTER

EXIT TERMINAL
db

ENTRANCE

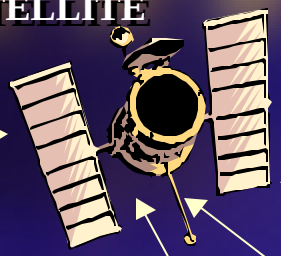


BOARDING CHECKPOINT. COMPUTER IS UP DATED ALONG WITH OVERALL SECURITY LEVEL OF AIRCRAFT. DATA IS MADE AVAILABLE TO ON BOARD CREW & AIR MARSHALL AS TO WHICH SEATS TO WATCH MOST.

START TERMINAL
READ / WRITE

DATABASE "db"

SATELLITE



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RFID TAG/LABEL

RFID INTERROGATOR

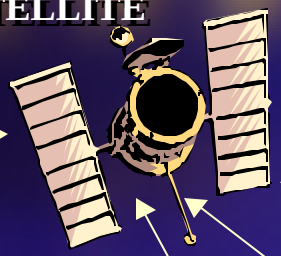
RFID IDENTITY BADGE

RFID INTERROGATORS ARE STRATEGICALLY LOCATED THROUGHOUT THE SYSTEM AND COMMUNICATE WITH A db TO ADJUST ALERT LEVELS.

START TERMINAL
READ / WRITE

DATABASE "db"

SATELLITE



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NATIONAL
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AC db

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BOARDING
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INFLIGHT AC

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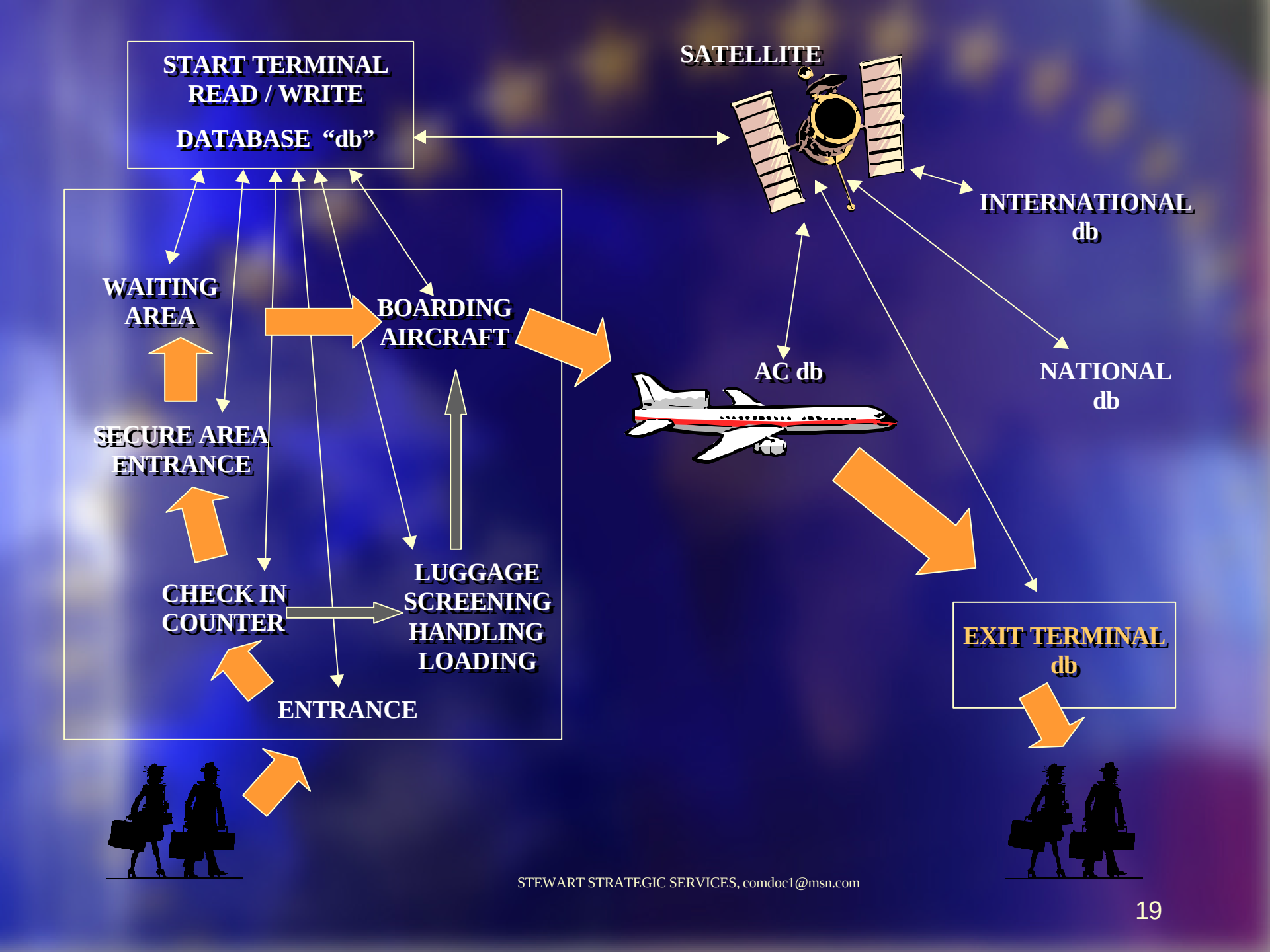
ENTRANCE

EXIT TERMINAL
db

AIR MARSHASL'S PC OR EAR PHONE IS LINKED TO COCKPIT THAT IS LINKED TO SATELLITE

Secure Cockpit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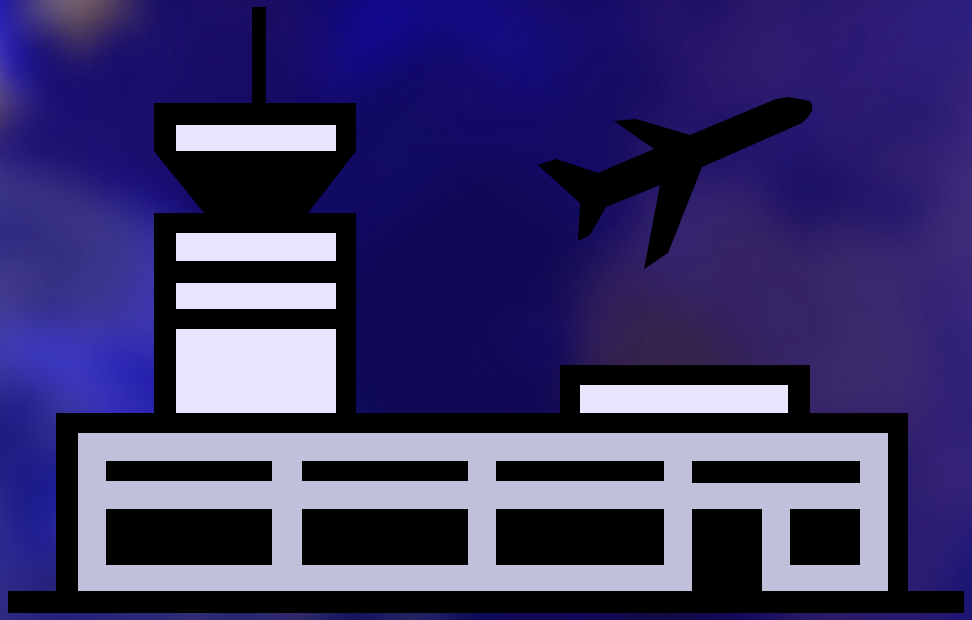
AC db
NATIONAL
db
SECURE AREA
ENTRANCE
CHECK IN
COUNTER
LUGGAGE
SCREENING
HANDLING
LOADING
ENTRANCE
EXIT TERMINAL
db

DESTINATION TERMINAL



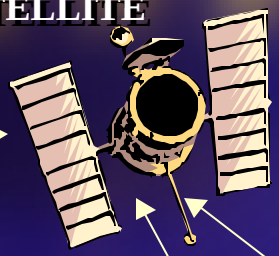
PROCESS IS REVERSED AFTER LANDING.

TRAVELERS CANNOT LEAVE LUGGAGE AREA UNLESS THEIR BAGS AND TICKETS MATCH.

START TERMINAL
READ / WRITE

DATABASE "db"

SATELLITE



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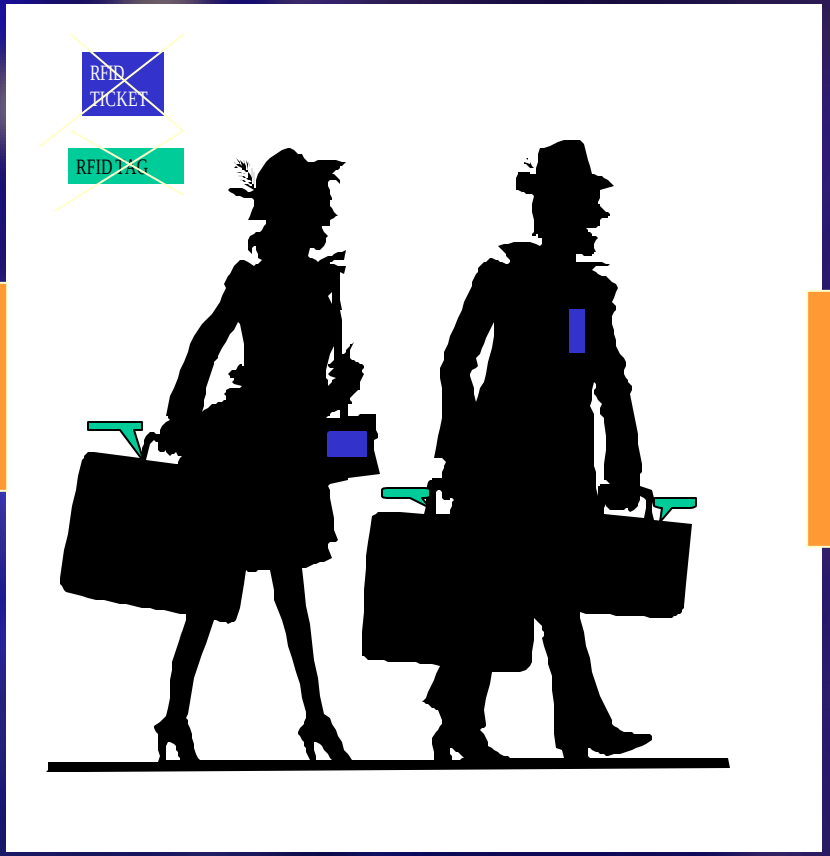
HAPPY PASSENGERS

TO LUGGAGE PICKUP



GROUND TRANSPORT & PARKING

LEAVE SYSTEM WITH TICKETS & BAGGAGE TAGS

END OF STORY

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Cockpit crew flies Plane

Bullet Proof Wall

Control link

Cabin crew in Charge of passengers

Video loop

FAA

SECURE AIRCRAFT

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Nuclear Terrorism

Why Is The U.S. Vulnerable ?

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Vulnerabilities

- **Availability of nuclear material & devices to terrorist.**
- **Approximately 35, 000 nuclear devices are held by seven nuclear powers.**
- **Four other countries are suspected to be developers.(Iran, Iraq, Libya, North Korea).**
- **Control of nuclear devices is ???????**

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Vulnerabilities

- One hundred & three Nuclear Plants are vulnerable to terrorist attack. 68 sites are near navigable waters.
- The eastern half of the U.S. is most at risk to fall out.
- Plan for protection needs new look.
- Private aircraft are a threat.

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Border Security

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Border Security Surveillance System

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.High Altitude Detection

- Balloons with detection package at high altitude (75,000 ft.).
- Remote Pilot-less Aircraft that can remain aloft for 3-5 months.
- Existing DOD and NASA systems .

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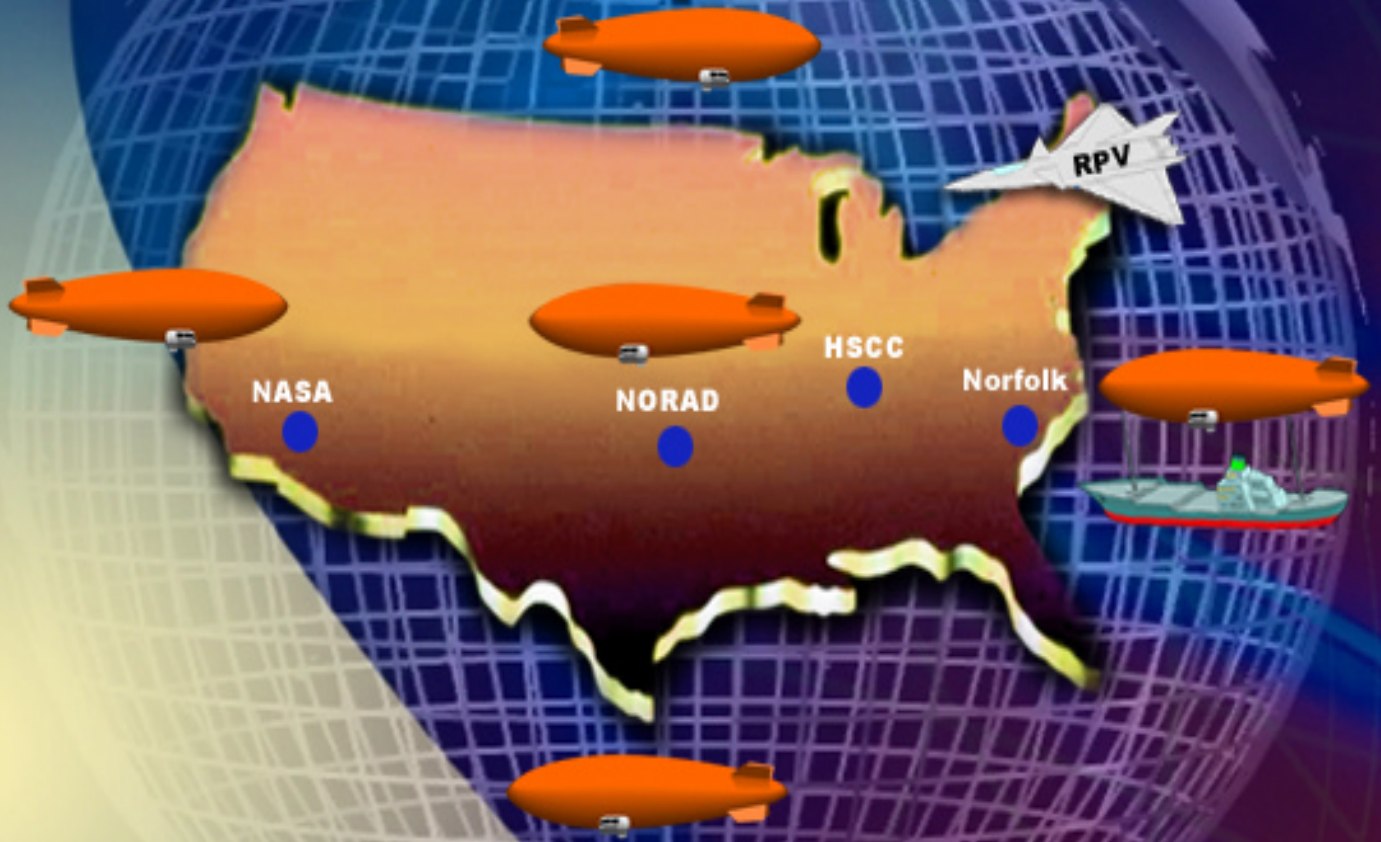

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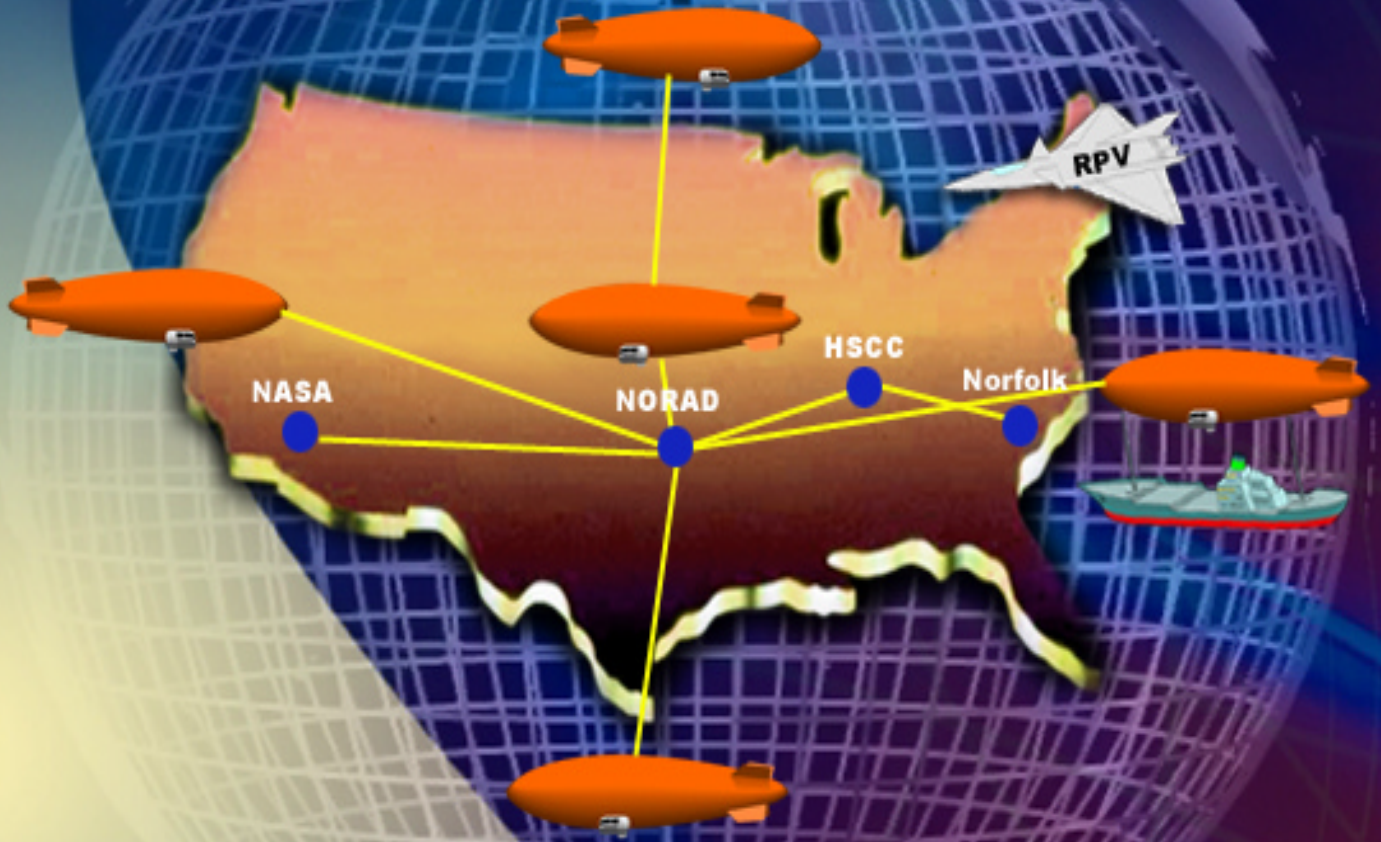

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DETECTION SCENARIOS

- **High altitude surveillance detects ship and alerts DHS Joint Control Center.**
- **DHS JCC alerts Coast Guard and NORAD.**
- **CG patrol ships steam towards target.**
- **Predator Aircraft launched from East Coast site.**
- **Norfolk Naval base alerted. Intercept aircraft scrambled.**

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Nuclear Site Defense

- **Protected by Homeland Security Guard.**
- **Implement Strict no-fly control zone with shoot down of violators.**
- **Implement “Stand-off Zone”to preclude attack by hand held weapons to include missile’s , mortar’s and rocket launchers.**

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The Major Nuclear Problem

If a nuclear weapon is detonated in the U.S.

Who do we retaliate against?????

How do we preempt "clandestine surrogate nuclear warfare"?????

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